

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000904

A. CLASSIFICATION OF SUBJECT MATTER																						
Int. Cl. ⁷ : E21B 43/01, 33/043, 33/035																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
B. FIELDS SEARCHED																						
Minimum documentation searched (classification system followed by classification symbols)																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Dwpi: (E21B AND capill+) or (E21B 43/01, 43/013, 33/035, 33/07, 33/043, 33/038, 17/01 AND hang+)																						
C. DOCUMENTS CONSIDERED TO BE RELEVANT																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
A	GB 2371062 A (SCHLUMBERGER HOLDINGS LIMITED) 17 July 2002 The whole document	1-8																				
A	WO 1998/036153 A1 (HITEC ASA) 20 August 1998 The whole document	1-8																				
A	CA 2327987 A1 (ROBBINS & MYERS ENERGY SYSTEMS, L.P., US) 8 June 2001 The whole document	1-8																				
A	US 3734179 A (SMEDLEY) 22 May 1973 The whole document	1-8																				
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C		<input checked="" type="checkbox"/> See patent family annex																				
<p>* Special categories of cited documents:</p> <table> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"B"</td> <td>earlier application or patent but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"B"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
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"P"	document published prior to the international filing date but later than the priority date claimed																					
Date of the actual completion of the international search 16 August 2004	Date of mailing of the international search report 18 AUG 2004																					
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer LEOPOLD FILIPOVIC Telephone No : (02) 6283 2105																					

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6146052 A (JACOBSEN et al) 14 November 2000 The whole document	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/AU2004/000904

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member			
GB	2371062	US	2002088623			
WO	9836153	AU	61247/98	NO	970657	
CA	2327987	US	2002070030			
US	3734179	US	3647230	US	3770058	
US	6146052	BR	9801487	BR	9801488	GB 2326177
		GB	2326758	NO	971984	NO 981163
		US	6046404			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX